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EMERGENCY PHONE NO. 716-873-6000
INFORMATION PHONE NO. 716-873-6000

H.M.I.S.
HEALTH 0
FLAMMABILITY 1
REACTIVITY 0
These ratings should be used only as part of fully implemented H.M.I.S. program.

MATERIAL SAFETY DATA SHEET

SECTION I

PRODUCT CLASS LATEX PAINT — DATE OF PREPARATION 2/02/87

TRADE NAME FIRE RETARDANT PAINT - INTUMESCENT TYPE

MANUFACTURER CODE I.D. Z 40 11- 1-84

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	% BY WGT	CAS NO.		ALLOWABLE EXPOSURE LEVEL PPM	MG/CU.M.	FBR/CC	MPPCF	SKIN	MAC	VP MM HG @ 20 DEG.C
TITANIUM DIOXIDE	5	13463-67-7	TLV		10	na	na	na	na	na
			PEL		15	na	na	na	na	
VINYL ACETATE	< 5	108-05-4	TLV	10	30	na	na	na	na	na

na = Not applicable
X-SKIN = SKIN ABSORPTION MUST BE CONSIDERED AS A ROUTE OF EXPOSURE
X-MAC = ALLOWABLE EXPOSURE LEVEL SHOULD NOT BE EXCEEDED FOR ANY TIME PERIOD

SECTION III - HEALTH INFORMATION

EFFECTS OF SHORT TERM OVEREXPOSURE

SWALLOWING
Unknown

INHALATION
Inhalation of mists may cause mild respiratory irritation.

EYE
Liquid splashed into the eye may cause transient eye irritation.

SKIN
May cause transient skin irritation.

EFFECTS OF REPEATED OVEREXPOSURE
None currently known

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH.
Titanium dioxide IS Not listed as a potential carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, OSHA, or A.C.G.I.H. Dry titanium dioxide in a 24-month inhalation study with rats revealed a significant increase in benign and malignant lung tumors in the group exposed to 250mg/M3 respirable TiO2 dust. At lower exposure levels, this significant effect was not observed. The normal clearance mechanisms of the lungs may have been overwhelmed at the 250mg/M3 exposure level, and this may have contributed to the occurence of carcinogenicity. These results may not be directly relevant to the workplace where occupational exposure limits are observed. At the TLV the TiO2 manufacturer concludes that there is no significant hazard for man.

SECTION IV - FIRST AID AND EMERGENCY PROCEDURES

SWALLOWING
If swallowed call Poison Control Center, Hospital Emergency Room, or Physician immediately.

INHALATION
Remove to fresh air.

EYE
Flush with large amounts of water, lifting upper and lower lids occasionally. Continue for at least 15 minutes. Get medical attention.

SKIN
Remove contaminated clothing. Wash affected area with soap and water. Obtain medical attention if irritation persists.

NOTES TO PHYSICIAN
Any treatment that might be required for overexposure should be directed at the control of symptoms and the clinical conditions.

SECTION V - PHYSICAL DATA

BOILING RANGE	162 DEG.F. TO 212 DEG.F.					
VAPOR DENSITY	Heavier than air.	% VOLATILE BY VOLUME	51			
EVAPORATION RATE	Slower than ether.	VOC	.0	lb/gal less water	0	g/l less water CALCULATED
WEIGHT LB./GAL.	10.7	VOC	.0	lb/gal solids	0	g/l solids CALCULATED

SECTION VI - FIRE AND EXPLOSION DATA

NFPA FLAMMABILITY CLASSIFICATION COMBUSTIBLE LIQUID - CLASS IIIB

SECTION VI - FIRE AND EXPLOSION DATA; (CONTINUED)

HPOINT OVER 200 DEG.F, SFCC.
NGUISHING MEDIA
Use NFPA Class B Fire extinguishers (carbon dioxide, all purpose dry chemical or alcohol foam) designed to extinguish flammable liquid fires. Polymer foam is preferred for large fires.
UNUSUAL FIRE AND EXPLOSION HAZARDS
During emergency conditions, overexposure to decompostion products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL FIRE FIGHTING PROCEDURES
Firefighters should wear self-contained breathing apparatus. Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

SECTION VII - REACTIVITY DATA

STABILITY
Normally stable.
CONDITIONS TO AVOID
Avoid excessive heat and sources of ignition.
INCOMPATABILITY (MATERIALS TO AVOID)
None known
HAZARDOUS DECOMPOSITION PRODUCTS
Burning, including when heated by welding or cutting, will produce smoke, carbon monoxide and carbon dioxide.
HAZARDOUS POLYMERIZATION
Will not occur
CONDITIONS TO AVOID
Keep away from heat sparks and flame.

SECTION VIII - ENVIRONMENTAL INFORMATION

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
Confine in small area; use absorbent to clean up. Place in container for disposal.
WASTE DISPOSAL
Dispose in accordance with federal, state and local laws.
RCRA CLASSIFICATION
As produced, this product is not a waste. If discarded as is, it is not classified a hazardous waste under RCRA.
ENVIRONMENTAL HAZARDS
None known

SECTION IX - PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION
If applied by spraying, use an appropriate, properly fitted NIOSH/MSHA approved respirtor to remove the spray mist. Refer to OSHA 29 CFR 1910.134 "Respiratory Protection".
VENTILATION
Use general dilution and local exhaust ventilation in sufficient volume and pattern to keep concentration of hazardous ingredients listed in Section II below the lowest exposure levels stated. Fumes emitted when baking this product must be vented.
HAND PROTECTION
EYE PROTECTION
Wear safety spectacles with side shields. Wear face shield as necessary when spraying.
OTHER PROTECTIVE EQUIPMENT
Not likely to be needed.

SECTION X - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Protect from freezing.
OTHER PRECAUTIONS
Do not take internally. Close container after each use. Keep away from children.

SECTION XI - OTHER INFORMATION

US DOT INFORMATION

HAZARD CLASS: NOT HAZARDOUS BY DOT

ID NUMBER: UN1263

PROPER SHIPPING NAME: PAINT

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. WHILE THE INFORMATION IS BELIEVED TO BE RELIABLE, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. SINCE THE USE OF THIS INFORMATION AND THE

SECTION XI - OTHER INFORMATION; (CONTINUED)

CONDITIONS AND USE OF THIS PRODUCT ARE CONTROLLED BY THE USER, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCT.

DRA NOTEBOOK

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